KamLAND-Muon-Tracker | KamLAND-4Pi

KamLAND 4Pi Testing and Commissioning | Logged in as "Karsten Heeger" | ELOG

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Message ID: **8** Entry time: **Fri Nov 12 16:48:46 2004**

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Type:	Result
Category:	
Subject:	Cable Stretch Test

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Approximately 10 meters of cable were deployed from the glovebox assembly.
A level transit was used to sight a scale (ruler) attached to the cable
clamp. The height of the transit was adjusted so its crosshairs were aligned
with a nominal value on the scale. As weight was added and the cable
stretched, the amount of stretch was measured by reading the graduations on
the scale through the transit sight and by using the transit's vertical
micrometer. The micrometer can translate the image +/- 0.100"; it is used
when the crosshairs are in between graduations. A tripod and light clasp was
used to keep the cable from twisting when weight was added. Pictures showing
the setup are attached.

Results and graphs are also attached. The summary is as follows:

1. The cable stretched ~6.8 mm with a total of ~10.4 kg of weight on it.
2. The cable does show a small amount of hysteresis between removing and
adding weight.

-Andrew
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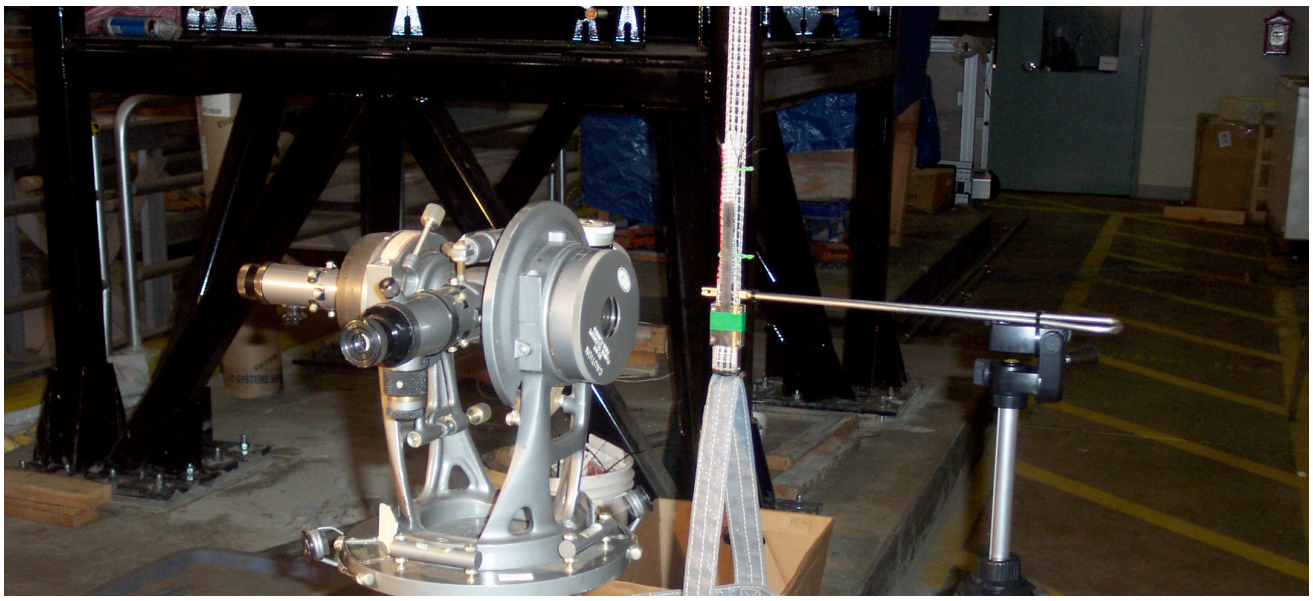
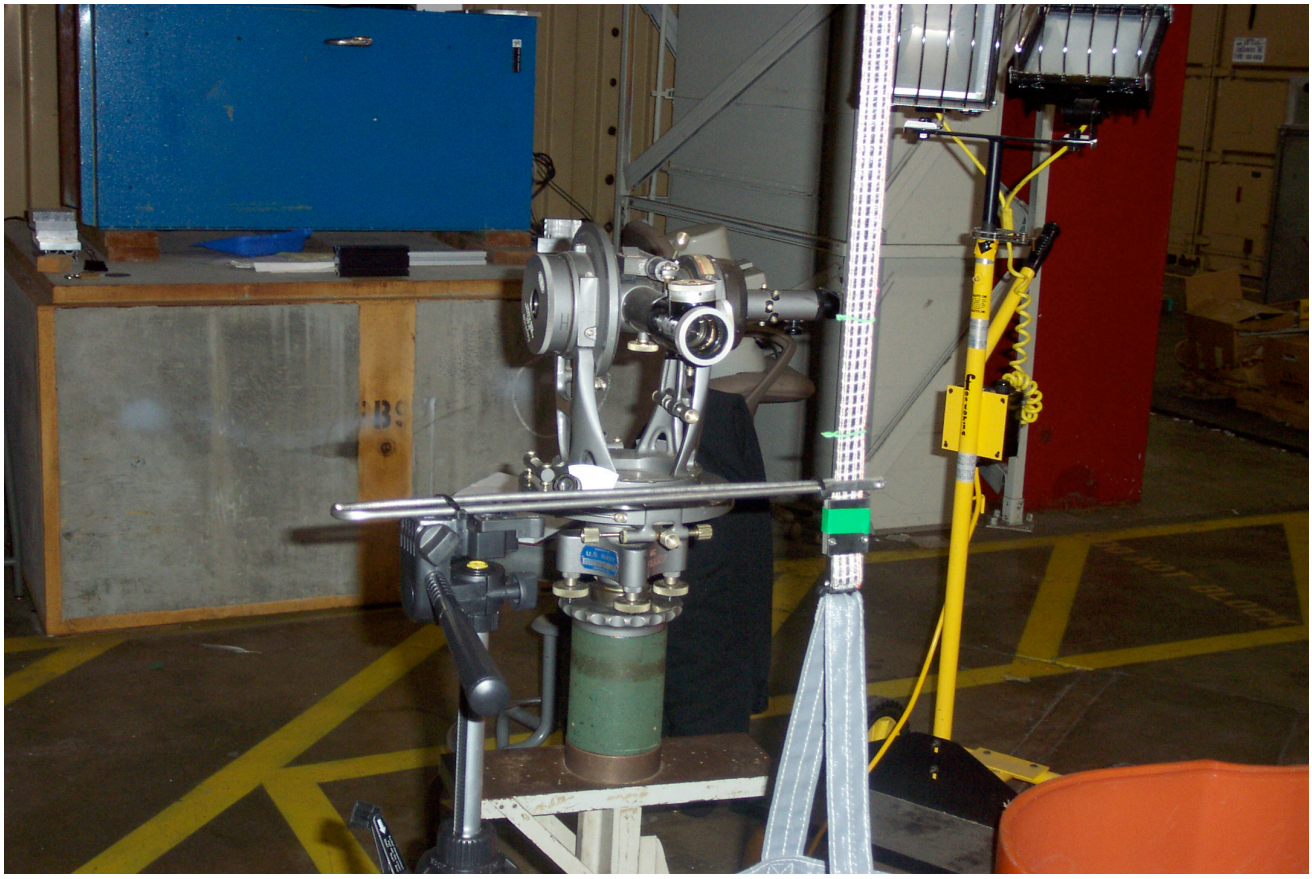
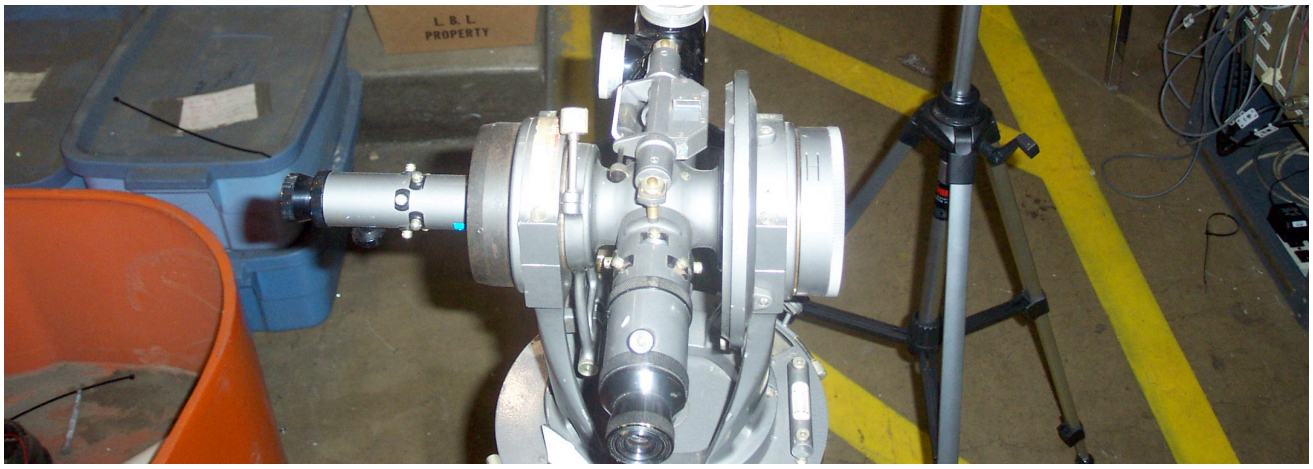
Attachment 1: cable _stretch_test 002.jpg 602 kB | Hide | Hide all



Attachment 2: cable _stretch_test 003.jpg 629 kB | Hide | Hide all



Attachment 3: cable _stretch_test 011.jpg 617 kB | Hide | Hide all



Attachment 4:	cable_stretch.htm 11 kB
Attachment 5:	cable_stretch.xls 31 kB

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